

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"20060034410".pn.	US-PGPUB; USPAT	AND	ON	2008/01/16 13:56
S2	1	"20020085657".pn.	US-PGPUB; USPAT	AND	ON	2008/01/03 16:30
S3	1	"6798308".pn.	US-PGPUB; USPAT	AND	ON	2008/01/03 16:31
S5	37	(SANDULEANU with MIHAI with ADRIAN with TIBERIU).in. or (LEENAERTS with DOMINICUS with MARTINUS with WILHELMUS).in. and correlator	US-PGPUB; USPAT	WITH	ON	2008/01/03 16:59
S6	38	(SANDULEANU with MIHAI with ADRIAN with TIBERIU).in. or (LEENAERTS with DOMINICUS with MARTINUS with WILHELMUS).in. and balanced	US-PGPUB; USPAT	WITH	ON	2008/01/03 16:35
S7	1	"6992510".pn.	US-PGPUB; USPAT	WITH	ON	2008/01/03 16:36
S8	55	quadricorrelator	US-PGPUB; USPAT	WITH	ON	2008/01/03 18:40
S9	1	"4308505".pn.	US-PGPUB; USPAT	WITH	ON	2008/01/03 16:46
S10	39	(SANDULEANU with MIHAI with ADRIAN with TIBERIU).in. or (LEENAERTS with DOMINICUS with MARTINUS with WILHELMUS).in. and (quadrat\$3 and (correlator or PLL))	US-PGPUB; USPAT	WITH	ON	2008/01/03 18:42
S12	2	((SANDULEANU with MIHAI with ADRIAN with TIBERIU).in. or (LEENAERTS with DOMINICUS with MARTINUS with WILHELMUS).in.) and quadricorrelator	US-PGPUB; USPAT	WITH	ON	2008/01/03 17:01
S13	2	((SANDULEANU with MIHAI with ADRIAN with TIBERIU).in. or (LEENAERTS with DOMINICUS with MARTINUS with WILHELMUS).in.) and quadricorrelator	US-PGPUB; USPAT	WITH	ON	2008/01/03 17:02
S14	19	((SANDULEANU with MIHAI with ADRIAN with TIBERIU).in. or (LEENAERTS with DOMINICUS with MARTINUS with WILHELMUS).in.) and (quadrat\$3 and (correlator or PLL))	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:04
S15	10751	((koninklijke with philips) or nxp).as.	US-PGPUB; USPAT	WITH	ON	2008/01/03 17:08

EAST Search History

S16	1	((koninklijke with philips) or nxp).as. and quadricorrelat\$3	US-PGPUB; USPAT	WITH	ON	2008/01/03 19:37
S17	1	((koninklijke with philips) or nxp).as. and quadricorrelator	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:30
S18	1	"5757857".pn.	US-PGPUB; USPAT	WITH	ON	2008/01/03 17:17
S19	58	quadri\$1correlator	US-PGPUB; USPAT	WITH	ON	2008/01/03 18:40
S20	58	quadri\$2correlator	US-PGPUB; USPAT	WITH	ON	2008/01/03 18:40
S21	9	S19 NOT S8	US-PGPUB; USPAT	WITH	ON	2008/01/03 18:41
S22	77	(quadr\$3correlat\$3 or quadri near correlat\$3)	US-PGPUB; USPAT	WITH	ON	2008/01/03 18:44
S23	77	(quadr\$3correlat\$3 or (quadri near correlat\$3))	US-PGPUB; USPAT	WITH	ON	2008/01/03 18:45
S24	2	((SANDULEANU with MIHAI with ADRIAN with TIBERIU).in. or (LEENAERTS with DOMINICUS with MARTINUS with WILHELMUS).in.) and (quadr\$3correlat\$3 or (quadri near correlat\$3))	US-PGPUB; USPAT	WITH	ON	2008/01/03 18:44
S25	68	(quadr\$3correlat\$3 or quadri near correlat\$3) and (frequency with (error or detect\$3))	US-PGPUB; USPAT	WITH	ON	2008/01/03 18:44
S26	30	(quadr\$3correlat\$3 or (quadri near correlat\$3)) and (mux or multiplex\$3)	US-PGPUB; USPAT	WITH	ON	2008/01/03 18:46
S27	1132	((koninklijke with philips) or nxp).as. and ((frequency or phase) with (detect\$3 or error))	US-PGPUB; USPAT	WITH	ON	2008/01/03 19:38
S28	4	((koninklijke with philips) or nxp).as. and ((frequency or phase) with (detect\$3 or error)) and @pd<"20011105"	US-PGPUB; USPAT	WITH	ON	2008/01/03 19:39
S29	387	((koninklijke with philips) or nxp).as. and ((frequency or phase) with (detect\$3 or error)) and @ad<"20011105"	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:05
S30	5526	(331/1a,25 or 375/374-376).ccls.	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:06
S31	242	(331/1a,25 or 375/374-376).ccls. and mux	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:07
S32	121	(331/1a,25 or 375/374-376).ccls. and mux and (flip\$1flop or D\$1FF or (flip with flop))	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:07

EAST Search History

S33	89	(331/1a,25 or 375/374-376).cccls. and mux and (flip\$1flop or D\$1FF or (flip with flop)) and @ad<"20021105"	US-PGPUB; USPAT	WITH	ON	2008/01/04 11:44
S34	11	("3746851" "3751994" "3831014" "3867620" "4470145" "4500973" "4755761" "5115454" "5790597" "6493404" "6738433").PN. OR ("6992510"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2008/01/03 20:21
S35	17	(331/1a,25 or 375/374-376).cccls. and mux and (flip\$1flop or D\$1FF or (flip with flop)) and @ad<"20021105" and quadrature	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:48
S36	1085	(phase with discriminat\$3) and (multiplexor or switch or mux) and (flip\$1flop or (flip near flop) or D\$1ff)	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:50
S37	1834	(frequency with discriminat\$3) and (multiplexor or switch or mux) and (flip\$1flop or (flip near flop) or D\$1ff)	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:56
S38	1653	(frequency with discriminat\$3) and (multiplexor or switch or mux) and (flip\$1flop or (flip near flop) or D\$1ff) and @ad<"20021105"	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:51
S39	1647	(frequency with discriminat\$3) and (switch or mux) and (flip\$1flop or (flip near flop) or D\$1ff) and @ad<"20021105"	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:51
S40	52	(frequency with discriminat\$3) and (mux) and (flip\$1flop or (flip near flop) or D\$1ff) and @ad<"20021105"	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:56
S41	253	(frequency with discriminat\$3) and (multiplexor or switch or mux) and (flip\$1flop or (flip near flop) or D\$1ff) and @ad<"20021105" and quadrature	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:51
S42	160	(frequency with discriminat\$3) and (multiplexor or switch or mux) and (flip\$1flop or (flip near flop) or D\$1ff) and @ad<"20021105" and quadrature and (bi\$1phase or edge)	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:52
S43	104	(frequency with discriminat\$3) and (multiplexor or switch or mux) and (flip\$1flop or (flip near flop) or D\$1ff) and @ad<"20021105" and quadrature and (dual or bi\$1phase)	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:57

EAST Search History

S44	24	(frequency near discriminat\$3) and (mux) and (flip\$1flop or (flip near flop) or D\$1ff) and @ad<"20021105"	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:54
S45	24	(frequency near discriminat\$3) and (mux) and (flip\$1flop or (flip near flop) or D\$1ff) and @ad<"20021105"	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:56
S46	638	(frequency near discriminat\$3) and (multiplexor or switch or mux) and (flip\$1flop or (flip near flop) or D\$1ff)	US-PGPUB; USPAT	WITH	ON	2008/01/03 20:56
S47	38	(frequency near discriminat\$3) and (multiplexor or switch or mux) and (flip\$1flop or (flip near flop) or D\$1ff) and @ad<"20021105" and quadrature and (dual or bi\$1phase)	US-PGPUB; USPAT	WITH	ON	2008/01/03 21:00
S48	3	(frequency near discriminat\$3) and (multiplexor or mux) and (flip\$1flop or (flip near flop) or D\$1ff) and @ad<"20021105" and quadrature and (dual or bi\$1phase)	US-PGPUB; USPAT	WITH	ON	2008/01/03 21:00
S49	294	(331/1a,25 or 375/374-376).ccls. and (frequency with discriminat\$3) and @ad<"20021105"	US-PGPUB; USPAT	WITH	ON	2008/01/04 11:47
S50	68	(331/1a,25 or 375/374-376).ccls. and (frequency with discriminat\$3) and @ad<"20021105" and quadrature	US-PGPUB; USPAT	WITH	ON	2008/01/04 12:13
S51	1	"20060034410".pn.	US-PGPUB; USPAT	AND	ON	2008/01/04 11:53
S52	2	double edge clocked bi\$1stable	US-PGPUB; USPAT	WITH	ON	2008/01/04 11:54
S53	1	"6300809".pn.	US-PGPUB; USPAT	WITH	ON	2008/01/04 11:54
S54	71	(331/1a,25 or 375/374-376).ccls. and (frequency with discriminat\$3) and @ad<"20031105" and quadrature	US-PGPUB; USPAT	WITH	ON	2008/01/04 12:13
S55	78	(331/1a,25 or 375/374-376).ccls. and (frequency with discriminat\$3) and quadrature	US-PGPUB; USPAT	WITH	ON	2008/01/04 12:21
S56	10	S55 not S50	US-PGPUB; USPAT	WITH	ON	2008/01/04 12:13
S57	2406	(frequency with discriminat\$3) and quadrature	US-PGPUB; USPAT	WITH	ON	2008/01/04 12:21

EAST Search History

S58	385	(frequency with discriminat\$3) and quadrature and ((flip with flop) or flip\$1flop or D\$1ff)	US-PGPUB; USPAT	WITH	ON	2008/01/04 12:22
S59	360	((frequency with discriminat\$3) and quadrature and ((flip with flop) or flip\$1flop or D\$1ff)) NOT S55	US-PGPUB; USPAT	WITH	ON	2008/01/04 12:27
S60	19	((frequency with discriminat\$3) and quadrature and ((flip with flop) or flip\$1flop or D\$1ff) and mux) NOT S55	US-PGPUB; USPAT	WITH	ON	2008/01/04 12:27
S61	61	(SANDULEANU with MIHAI with ADRIAN with TIBERIU).in. or (LEENAERTS with DOMINICUS with MARTINUS with WILHELMUS).in.	US-PGPUB; USPAT	WITH	ON	2008/01/04 12:45
S62	30	((SANDULEANU with MIHAI with ADRIAN with TIBERIU).in. or (LEENAERTS with DOMINICUS with MARTINUS with WILHELMUS).in.) and quadrature	US-PGPUB; USPAT	WITH	ON	2008/01/04 12:46
S63	362	((koninklijke with philips) or nxp).as. and quadrature	US-PGPUB; USPAT	WITH	ON	2008/01/04 13:17
S64	114	((koninklijke with philips) or nxp).as. and quadrature and (frequency with (discriminat\$3 or detect\$3))	US-PGPUB; USPAT	WITH	ON	2008/01/04 13:25
S65	1	"5015872".pn.	US-PGPUB; USPAT	WITH	ON	2008/01/04 13:26
S66	1	"5179731".pn.	US-PGPUB; USPAT	WITH	ON	2008/01/04 13:43
S67	10337	(frequency near detector)	US-PGPUB; USPAT	WITH	ON	2008/01/04 13:43
S68	419	(frequency near detector) and quadrature and ((flip near flop) or flip\$1flop or d\$1ff)	US-PGPUB; USPAT	WITH	ON	2008/01/04 13:45
S69	369	((frequency near detector) and quadrature and ((flip near flop) or flip\$1flop or d\$1ff)) NOT S58	US-PGPUB; USPAT	WITH	ON	2008/01/04 13:47
S70	124	((frequency near detector) and quadrature and ((flip near flop) or flip\$1flop or d\$1ff) and (mux or multiplexor)) NOT S58	US-PGPUB; USPAT	WITH	ON	2008/01/04 14:05
S71	1	"20020085657".pn.	US-PGPUB; USPAT	WITH	ON	2008/01/04 14:05
S72	1	"6154077".pn.	US-PGPUB; USPAT	AND	ON	2008/01/04 16:49
S73	20	quad\$correlat\$3 and ("329" or "327").clas.	US-PGPUB; USPAT	AND	ON	2008/01/04 16:54

EAST Search History

S74	88	quad\$correlat\$3	US-PGPUB; USPAT	AND	ON	2008/01/04 16:51
S75	3	quad\$correlat\$3 and (double with edge).	US-PGPUB; USPAT	AND	ON	2008/01/04 17:20
S76	239	(double with edge with flip with flop)	US-PGPUB; USPAT	AND	ON	2008/01/04 17:20
S77	102	(double with edge with flip with flop) and (pll or (frequency (detector or discriminator)))	US-PGPUB; USPAT	AND	ON	2008/01/04 17:22
S78	43	(double near edge with flip with flop) and (pll or (frequency (detector or discriminator)))	US-PGPUB; USPAT	AND	ON	2008/01/04 17:22
S79	1	"20040114702".pn.	US-PGPUB; USPAT	AND	ON	2008/01/04 18:15
S80	1	"6545546".pn.	US-PGPUB; USPAT	AND	ON	2008/01/04 18:28
S81	1	"6211741".pn.	US-PGPUB; USPAT	AND	ON	2008/01/04 18:29
S82	1	"6977959".pn.	US-PGPUB; USPAT	AND	ON	2008/01/04 18:59
S83	1	"20020085657".PN.	US-PGPUB; USPAT	AND	ON	2008/01/04 18:59
S84	1	"3812388".pn.	US-PGPUB; USPAT	AND	ON	2008/01/15 18:21
S85	1757	gradient with search	US-PGPUB; USPAT	AND	ON	2008/01/16 14:17
S86	930	gradient near2 search	US-PGPUB; USPAT	AND	ON	2008/01/16 17:00
S88	3511	(charge near pump).ab.	US-PGPUB; USPAT	AND	ON	2008/01/16 17:03
S89	2351	(charge near pump).ab. and transistor and @ad<"20050502"	US-PGPUB; USPAT	AND	ON	2008/01/16 17:03
S90	516	(charge near pump).ab. and ((transistor with pair)) and @ad<"20050502"	US-PGPUB; USPAT	AND	ON	2008/01/16 17:04
S91	281	(charge near pump).ab. and ((transistor with pair) same (charge near pump)) and @ad<"20050502"	US-PGPUB; USPAT	AND	ON	2008/01/16 17:11
S93	871	(charge near pump).ab. and ((frequency or phase) with detect\$3) and transistor	US-PGPUB; USPAT	AND	ON	2008/01/16 17:25
S94	1159	(charge near pump).ab. and (((frequency or phase) with detect\$3) same (transistor or (charge\$4pump or (charg\$3 near pump))))	US-PGPUB; USPAT	AND	ON	2008/01/16 17:26

EAST Search History

S96	849	(charge near pump).ab. and (((frequency or phase) with detect\$3) same (transistor or (charge\$4pump or (charg\$3 near pump)))) and @ad<"20050427" and (PLL or (phase\$1 with lock\$3 with loop))	US-PGPUB; USPAT	AND	ON	2008/01/16 17:27
S97	751	(charge near pump).ab. and (((frequency or phase) with detect\$3) same (transistor or (charge\$4pump or (charg\$3 near pump)))) and @ad<"20050427" and PLL	US-PGPUB; USPAT	AND	ON	2008/01/16 17:28
S98	151	(charge near pump).ab. and (((frequency or phase) with detect\$3) same (transistor or (charge\$4pump or (charg\$3 near pump)))) and @ad<"20050427" and PLL and "375".clas.	US-PGPUB; USPAT	AND	ON	2008/01/16 17:28
S99	176	(charge near pump).ab. and (((frequency or phase) with detect\$3) same (transistor or (charge\$4pump or (charg\$3 near pump)))) and @ad<"20050427" and "375".clas.	US-PGPUB; USPAT	AND	ON	2008/01/16 17:30
S10 2	577	(charge near pump).ab. and (((frequency or phase) with detect\$3) same (transistor or (charge\$4pump or (charg\$3 near pump)))) and @ad<"20050427" and "327".clas.	US-PGPUB; USPAT	AND	ON	2008/01/16 17:32
S10 3	76	(charge near pump).ab. and (((frequency or phase) with detect\$3) same (transistor or (charge\$4pump or (charg\$3 near pump)))) and @ad<"20050427" and (327/536).ccls.	US-PGPUB; USPAT	AND	ON	2008/01/16 17:36
S10 4	50	(charge near pump).ab. and (((frequency or phase) near2 detect\$3) same (transistor or (charge\$4pump or (charg\$3 near pump)))) and @ad<"20050427" and (327/536).ccls.	US-PGPUB; USPAT	AND	ON	2008/01/16 17:50
S10 5	1	(charge near pump).ab. and (((frequency or phase) near2 detect\$3) same (transistor or (charge\$4pump or (charg\$3 near pump)))) and @ad<"20050427" and (327/536).ccls. and quadrature	US-PGPUB; USPAT	AND	ON	2008/01/16 17:59

EAST Search History

S10 6	30	(Mihai near Sanduleanu).in. and ((phase or frequency) near2 detect\$3)	US-PGPUB; USPAT	AND	ON	2008/01/16 18:00
S10 7	37	(SANDULEANU with MIHAI with ADRIAN with TIBERIU).in. or (LEENAERTS with DOMINICUS with MARTINUS with WILHELMUS).in. and quadricorrelator	US-PGPUB; USPAT	WITH	ON	2008/01/16 18:04
S10 8	38	(SANDULEANU with MIHAI).in. or (LEENAERTS with DOMINICUS with MARTINUS with WILHELMUS).in. and quadricorrelator	US-PGPUB; USPAT	WITH	ON	2008/01/16 18:04
S10 9	38	(SANDULEANU with MIHAI).in. or (LEENAERTS with WILHELMUS).in. and quadricorrelator	US-PGPUB; USPAT	WITH	ON	2008/01/16 18:05
S11 0	8	S109 not S106	US-PGPUB; USPAT	WITH	ON	2008/01/16 18:08
S11 1	444	(326/17).cccls.	US-PGPUB; USPAT	WITH	ON	2008/01/16 18:08
S11 2	4	(326/17).cccls. and ((frequency or phase) near2 detect\$3)	US-PGPUB; USPAT	WITH	ON	2008/01/17 14:20
S11 3	2	(326/20).cccls. and ((frequency or phase) near2 detect\$3)	US-PGPUB; USPAT	WITH	ON	2008/01/16 18:09
S11 4	1	"20070021933".pn.	US-PGPUB; USPAT	WITH	ON	2008/01/17 14:21
S11 5	268	(tri\$1state or (tri adj state)) same ((frequency or phase) near3 detect\$3)	US-PGPUB; USPAT	WITH	ON	2008/01/17 14:22
S11 6	140	(tri\$1state or (tri adj state)) same ((frequency or phase) near3 detect\$3) and transistor	US-PGPUB; USPAT	WITH	ON	2008/01/17 14:23
S11 7	7831	nor near5 transistor	US-PGPUB; USPAT	AND	ON	2008/01/17 15:34
S11 8	1400	nor near5 transistor and "327".clas.	US-PGPUB; USPAT	AND	ON	2008/01/17 15:34
S11 9	870	nor near5 transistor and "327".clas. and @pd<"20020101"	US-PGPUB; USPAT	AND	ON	2008/01/17 15:34
S12 0	1	(nor and "not") near5 transistor and "327".clas. and @pd<"20020101"	US-PGPUB; USPAT	AND	ON	2008/01/17 15:35
S12 1	870	(nor) near5 transistor and "327".clas. and @pd<"20020101"	US-PGPUB; USPAT	AND	ON	2008/01/17 15:35
S12 2	86	(nor) near5 transistor and "327".clas. and @pd<"20020101" and nor. ab.	US-PGPUB; USPAT	AND	ON	2008/01/17 15:42
S12 3	2	("NOT") near5 transistor and "327".clas. and @pd<"20020101"	US-PGPUB; USPAT	AND	ON	2008/01/17 15:43

EAST Search History

S12 4	2	"not" with gate with transistor	US-PGPUB; USPAT	AND	ON	2008/01/17 16:52
S12 5	14766	nor with transistor\$1	US-PGPUB; USPAT	AND	ON	2008/01/17 17:15
S12 6	8304	nor with transistor\$1 and @pd<"20020101"	US-PGPUB; USPAT	AND	ON	2008/01/17 17:16
S12 7	5173	(nor near gate) with transistor\$1 and @pd<"20020101"	US-PGPUB; USPAT	AND	ON	2008/01/17 17:16
S12 8	993	(nor near gate) with transistor\$1 and @pd<"20020101" and "327". clas.	US-PGPUB; USPAT	AND	ON	2008/01/17 17:17
S12 9	200	(nor near gate) with transistor\$1 and @pd<"20020101" and (texas with instruments).as.	US-PGPUB; USPAT	AND	ON	2008/01/17 17:18
S13 0	12	((SANDULEANU with TIBERIU).in. or (LEENAERTS with WILHELMUS).in.) and (coarse)	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:34
S13 1	61	((SANDULEANU with TIBERIU).in. or (LEENAERTS with WILHELMUS).in.)	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:09
S13 2	144	PLL and (course with VCO)	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:09
S13 3	98	PLL and (course with VCO) and (add\$3 or su\$1mer or sum\$1ing)	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:11
S13 4	249	PLL and (coarse with VCO) and (add\$3 or su\$1mer or sum\$1ing)	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:13
S13 5	316	PLL and (coarse same fine same VCO) and (add\$3 or su\$1mer or sum\$1ing)	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:13
S13 6	159	PLL and (coarse same fine same VCO) and (add\$3 or su\$1mer or sum\$1ing) and @ad<"20021105"	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:19
S13 7	11396	((phase or frequency) detect\$3) same VCO	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:20
S13 8	26	((phase or frequency) detect\$3) same VCO same (charge with pump) same (coarse with fine)	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:21
S13 9	11620	((koninklijke with philips) or (philips North America)).as.	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:30
S14 0	1	((koninklijke with philips) or (philips North America)).as. and (VCO with fine with coarse)	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:31
S14 1	2	((koninklijke with philips) or (philips North America)).as. and (VCO with fine) and (Vco with coarse)	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:32

EAST Search History

S14 2	1989	(frequency near detect\$3) and (phase near detect\$3) and (charge near pump)	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:35
S14 3	314	(frequency near detect\$3) and (phase near detect\$3) and (charge near pump) and (375/215,294,327, 373,376).cccls.	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:38
S14 4	35	(frequency near detect\$3) and (phase near detect\$3) and (charge near pump) and (375/215,294,327, 373,376).cccls. and ((VCO or nco) with (coarse or fine))	US-PGPUB; USPAT	WITH	ON	2008/01/17 20:54
S14 5	1	"6853696".pn.	US-PGPUB; USPAT	WITH	ON	2008/01/17 21:19
S14 6	1	"20060050829".pn.	US-PGPUB; USPAT	WITH	ON	2008/01/17 21:19